

```

1.  Serializable]
2.  [SqlUserDefinedType(Format.Structured, MaxByteSize=8000)]
3.  public class BaseItem: INullable
4.  {
5.      [SqlUdtField(IsNullable=false)]
6.      private SqlGuid m_ID;
7.
8.      [SqlUdtField(MaxSize=128, IsFixedLength=false)]
9.      private SqlString m_Name;
10.
11.     [SqlUdtProperty(PropertyName="m_ID")]
12.     public SqlGuid ID
13.     {
14.         get
15.         {
16.             return m_ID;
17.         }
18.         set
19.         {
20.             this.m_ID = value;
21.         }
22.     }
23.
24.     [SqlUdtProperty(PropertyName="m_Name")]
25.     public SqlGuid Name
26.     {
27.         get
28.         {
29.             return m_Name;
30.         }
31.         set
32.         {
33.             this.m_Name = value;
34.         }
35.     }
36.
37.     [SqlUdtField(IsNullable=true)]
38.     public MultiSet<PropertyAssociation> Properties;
39.
40.     #region UDT boilerplate
41.     public BaseItem()
42.     {
43.         this.ID = new SqlGuid(Guid.NewGuid());
44.     }
45.     public override string ToString()
46.     {
47.         return "ID " + this.ID;
48.     }
49.     [SqlUdtField]
50.     protected SqlBoolean m_IsNull = SqlBoolean.False;
51.     public bool IsNull { get { return this.m_IsNull.Value; } }
52.     public static BaseItem Null
53.     {
54.         get
55.         {
56.             BaseItem s = new BaseItem();
57.
58.             s.m_IsNull = SqlBoolean.True;
59.             return s;
60.         }
61.     }
62.     public static BaseItem Parse(SqlString s)
63.     {
64.         return new BaseItem();
65.     }
66.     #endregion
67. }
  
```

Fig. 1

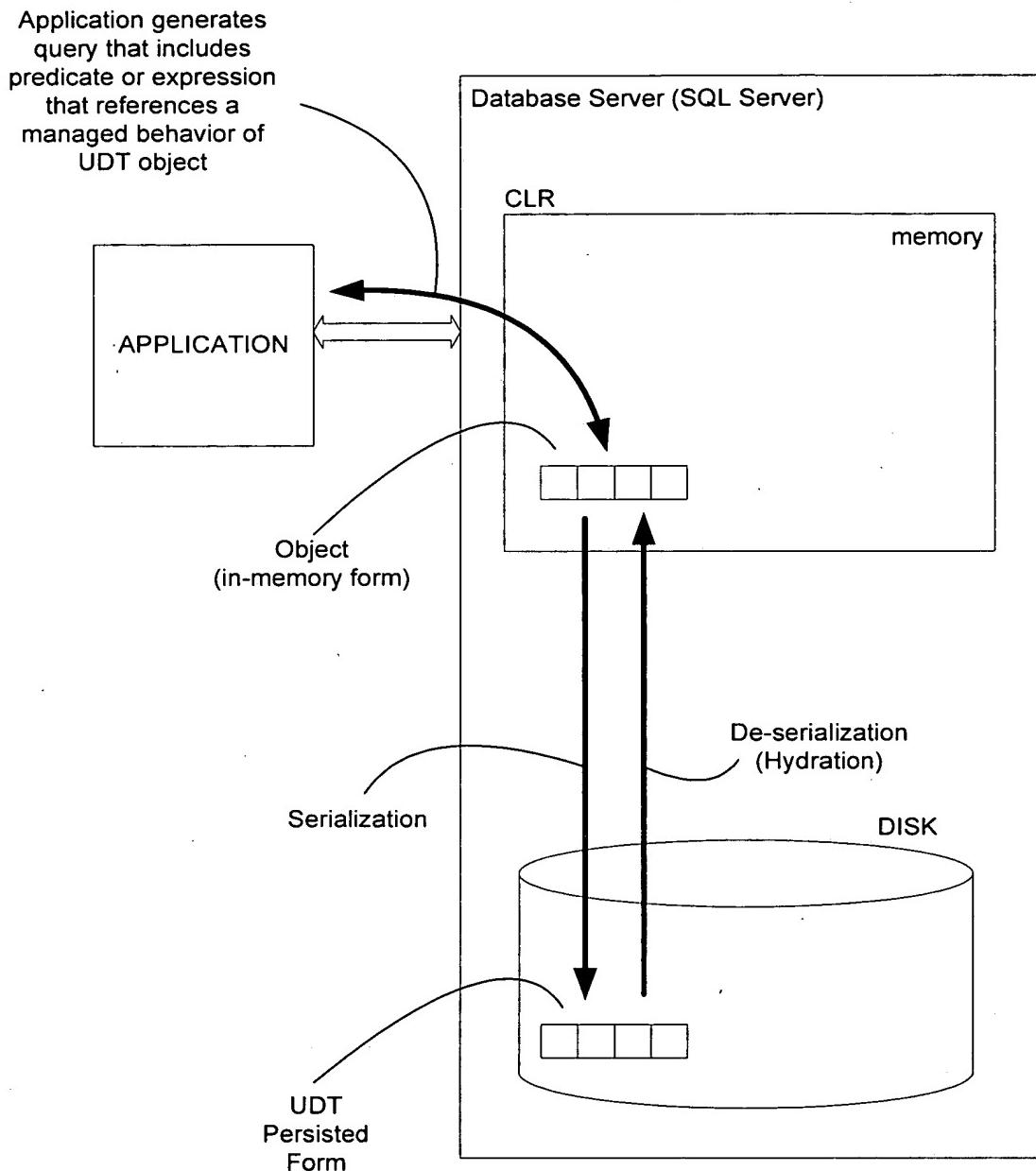


Fig. 2

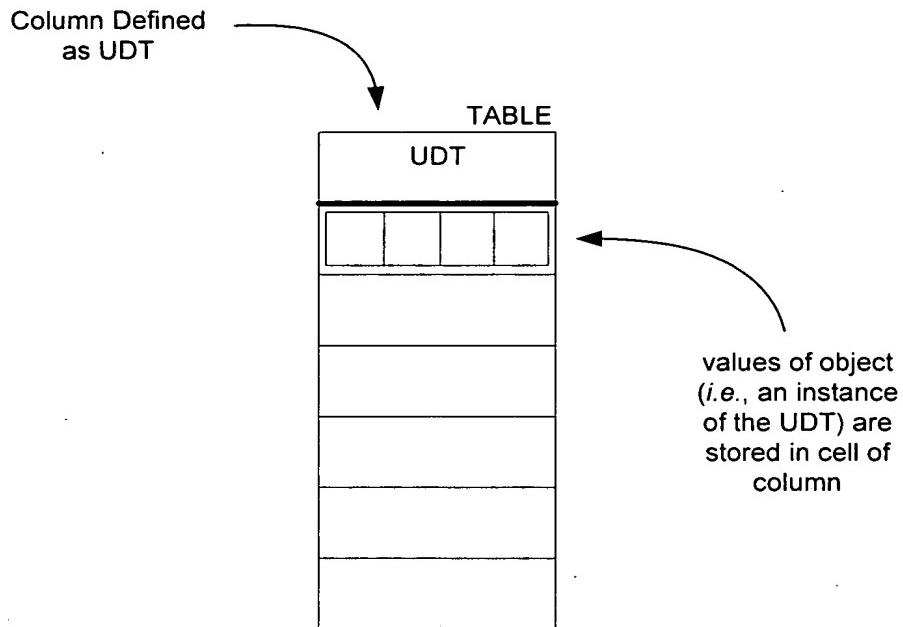
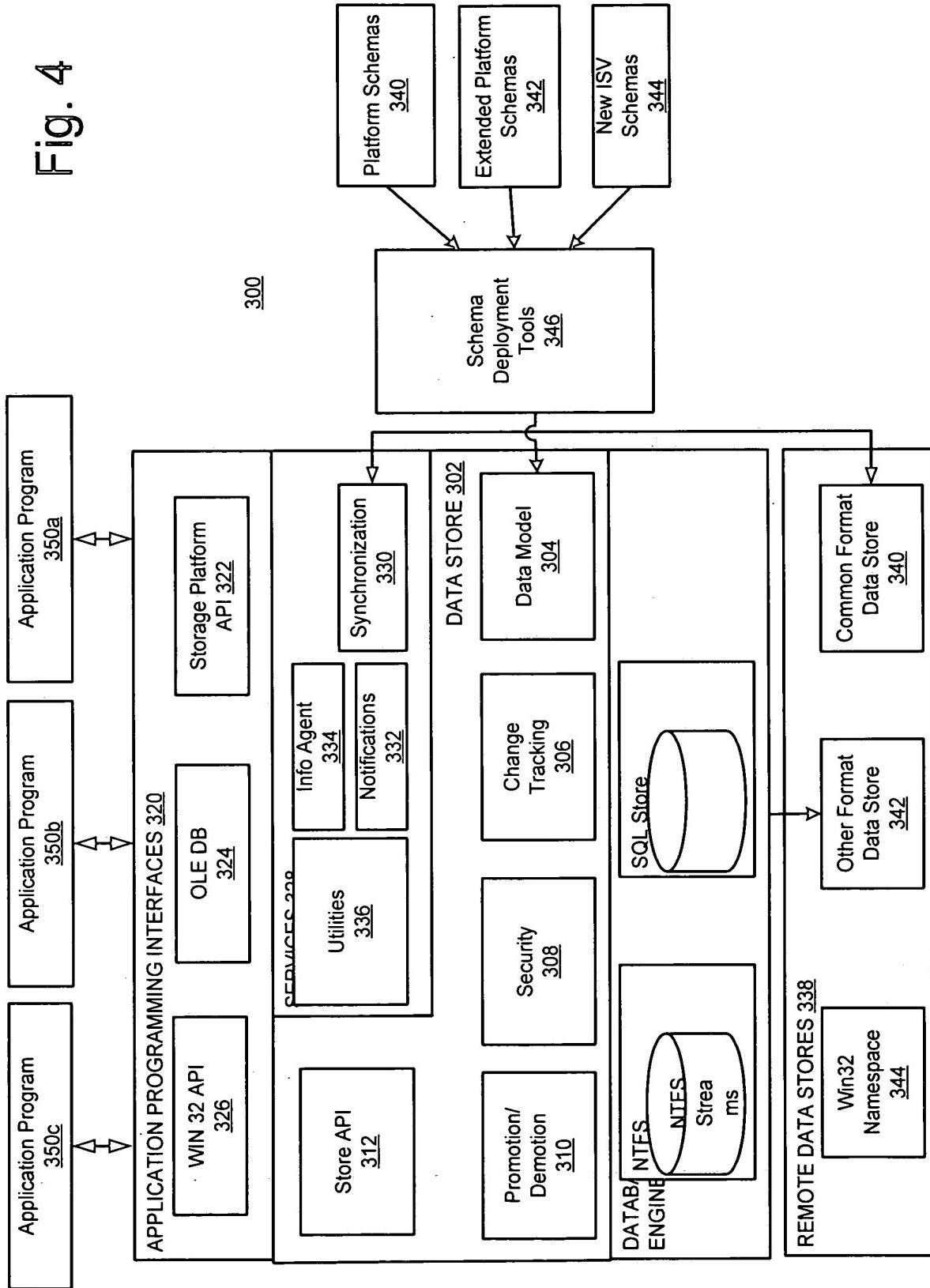


Fig. 3

Fig. 4



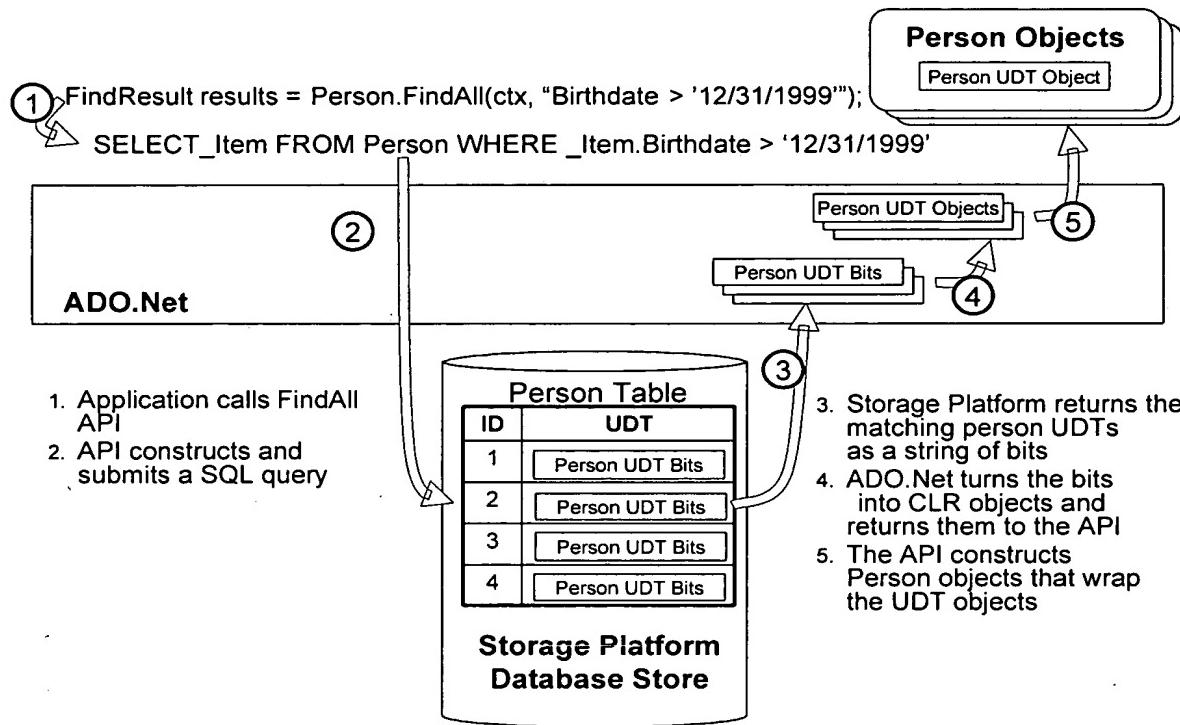


Fig. 5

```

Class Person
{
  [SqlUdtField (IsFixedLength=false; MaxSize = 100)]
  SqlString FirstName;

  [SqlUdtField(MaxSize=SqlMetaData.MAX; IsFilestream=true;)]
  SqlBytes PhotoFS;
}
  
```

Fig. 6

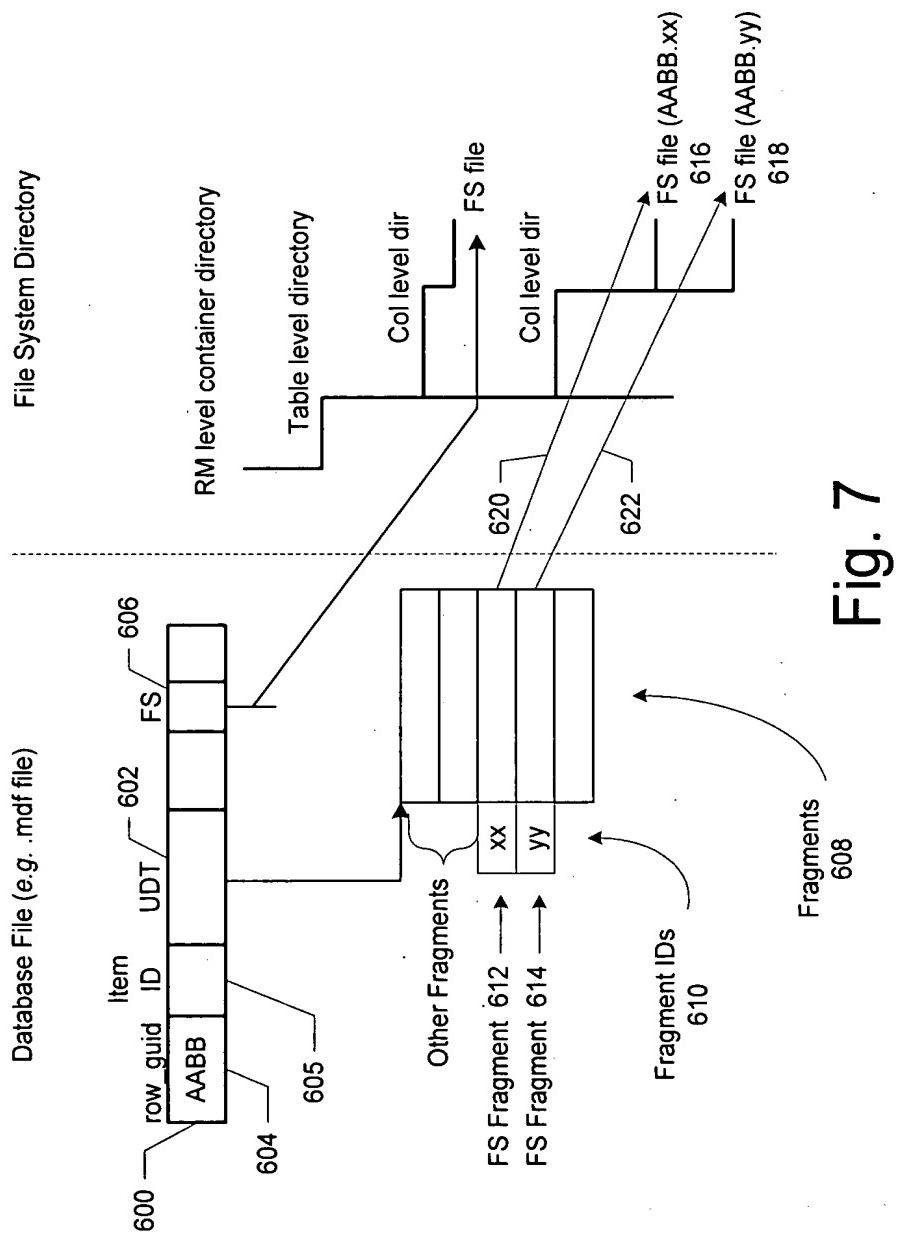


Fig. 7

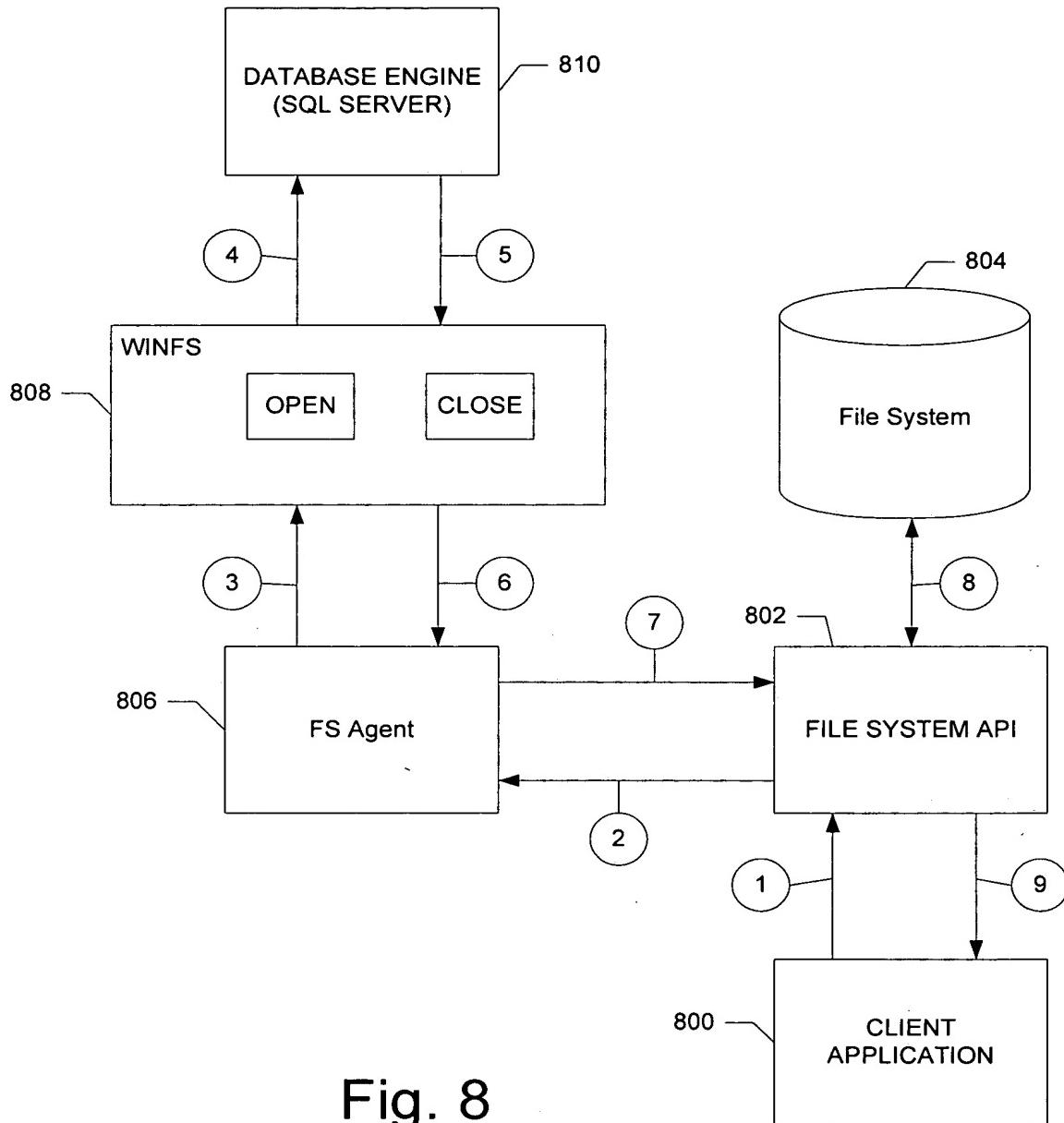
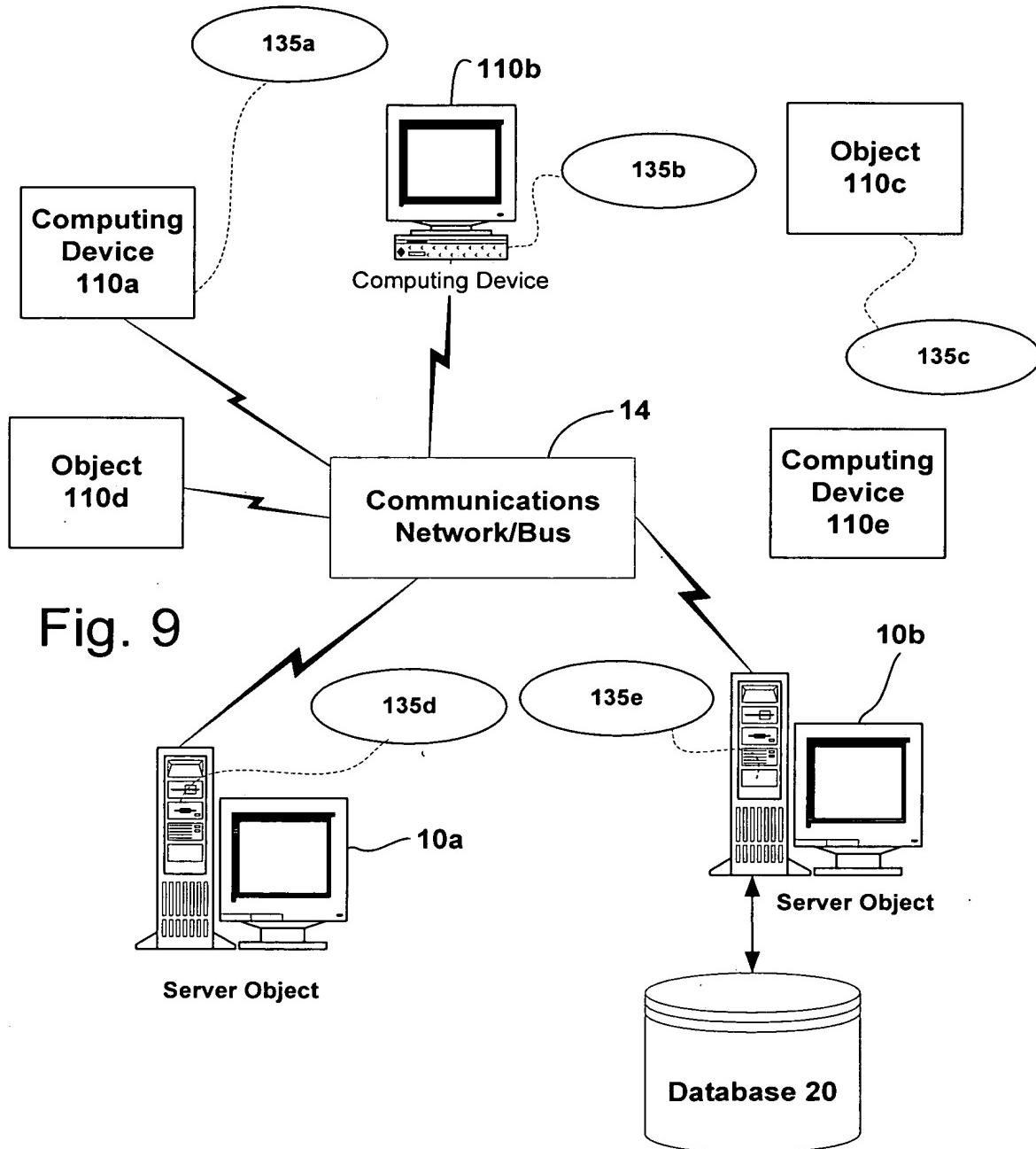


Fig. 8



Computing Environment 100

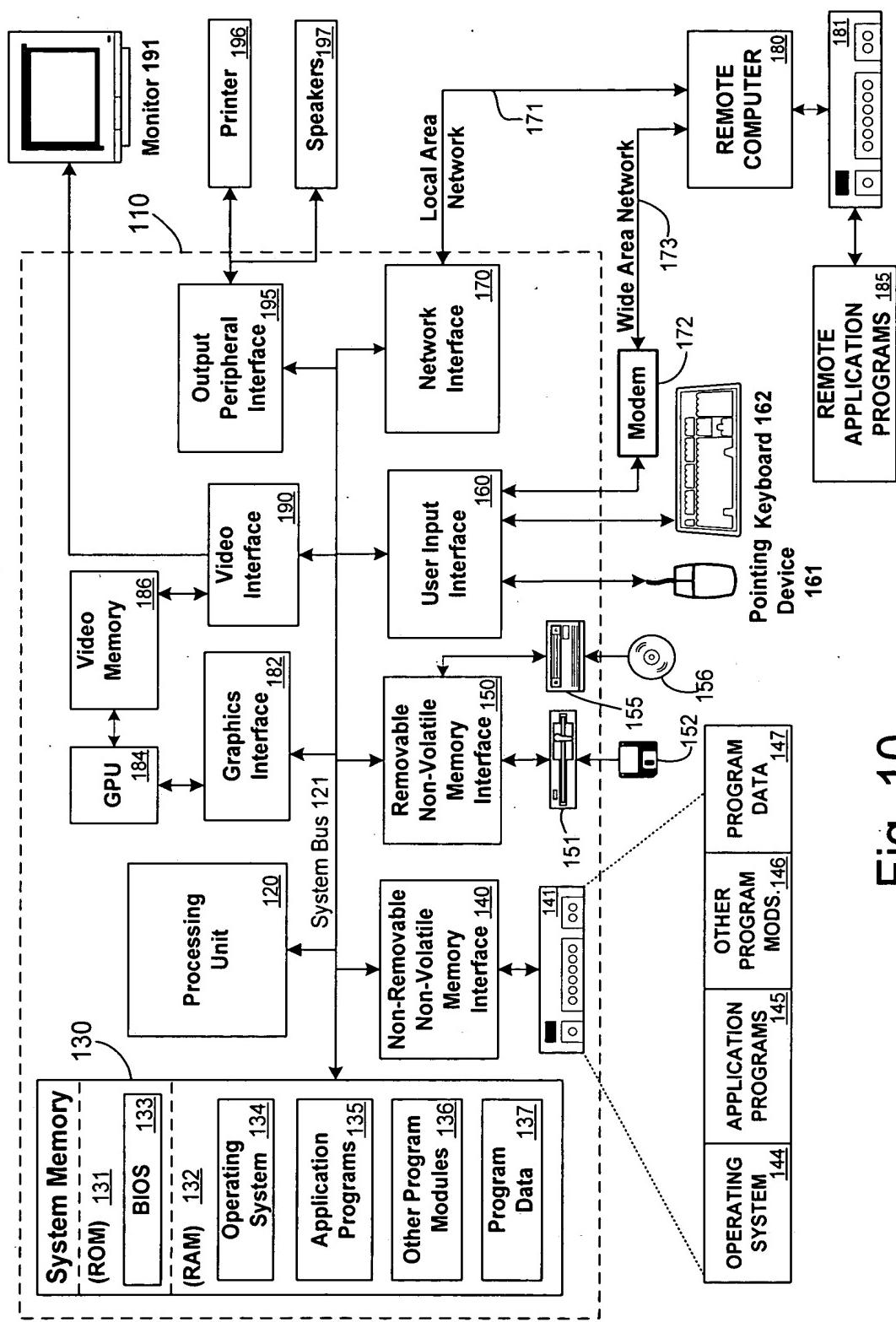


Fig. 10